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**Patent Claims**

1. An apparatus for separating amalgam from dental sewage,  
consisting of a flow zone and a sedimentation zone which  
are arranged in a housing providing an aperture for  
sewage supply and an aperture for sewage discharge,  
characterised in that  
the housing (10), which comprises an inlet chamber (40),  
a passage chamber (50) containing a separator (30) made  
of foils, and an outlet chamber (60), is sealed in a  
liquid-proof manner, except for a sewage inlet (41) and  
a sewage outlet (61), and provides stands (13, 14).
2. An apparatus according to Claim 1,  
characterised in that  
the hollow interior of such stands (13, 14) contains at  
least one pressure chamber (72) which is combined with  
pressure sensors (75, 76) measuring any pressure  
changes.
3. An apparatus according to Claims 1 or 2,  
characterised in that  
the inlet chamber (40), the passage chamber (50) with  
the separator (30) and the outlet chamber (60) are  
arranged horizontally one after the other as seen in  
flow direction, and with the sewage inlet (41) and the  
sewage outlet (61) arranged in the highest position of  
the inlet chamber (40) and the outlet chamber (60)  
respectively.

5        4. An apparatus according to any one of Claims 1 to 3,  
characterised in that  
the separator (30) is a form body which can be streamed  
through consisting of several tight fitting layers of a  
structured foil (32).

10       5. An apparatus according to any one of Claims 1 to 3,  
characterised in that  
the separator (30) is a form body which can be streamed  
through consisting of several tight fitting layers of a  
15       structured foil (32) and a plain foil (34) that are  
arranged alternately.

6. An apparatus according to any one of Claims 1 to 5,  
characterised in that  
20       the separator (30) forming a form body consists of a  
wound structured foil (32) or a structured foil (32)  
wound in combination with a plain foil (34).

7. An apparatus according to any one of Claims 1 to 5,  
25       characterised in that  
the separator (30) forming a form body consists of  
tubular elements made of structured foil (32), or  
structured foil (32) and plain foil (34), which are slit  
into each other.

30       8. An apparatus according to any one of Claims 1 to 7,  
characterised in that  
the structured foil (32) provides continuous  
longitudinal structures as seen in the flow direction of  
35       the sewage.

5        9. An apparatus according to any one of Claims 1 to 8,  
characterised in that  
the structured foil (32) provides a plissé structure  
consisting of triangles, quadrangles, trapezia.

10       10. An apparatus according to any one of Claims 1 to 9,  
characterised in that  
the structured foil (32) provides lamellar, honeycombed  
or riffle structures or scattered raised points or  
15       indentations.

11. An apparatus according to any one of Claims 1 to 10,  
characterised in that  
20       the sedimentation surfaces of the structured foil (32)  
are roughened.

12. An apparatus according to any one of Claims 1 to 11,  
25       characterised in that  
a perforated plate (20) is arranged between the inlet  
chamber (40) and the passage chamber (50), the holes  
(21) of which provide sinkings (22) on the side that  
faces the flow.

30       13. An apparatus according to any one of Claims 1 to 12,  
characterised in that  
the inlet chamber (40) provides a flow guidance element  
35       (42) that is arranged in the upper area of the inlet  
chamber (40).

- 5        14. An apparatus according to any one of Claims 1 to 13,  
characterised in that  
in the uppermost position of the passage chamber (50),  
above the separator (30), a vent channel (51) is  
10 arranged which has a connection to the sewage outlet  
(61) in the outlet chamber (60).
- 15        15. An apparatus according to any one of Claims 1 to 14,  
characterised in that  
the sewage outlet (61) provides a flow regulator (62).
- 20        16. An apparatus according to any one of Claims 1 to 15,  
characterised in that  
the pressure chamber (72) provided in a stand (13, 14)  
comprises a gas-impermeable, elastic foil (71).
- 25        17. An apparatus according to any one of Claims 1 to 16,  
characterised in that  
the pressure chamber (72) contains air or another gas  
and is slightly pressurized.
- 30        18. An apparatus according to any one of Claims 1 to 17,  
characterised in that  
the level meter (70) is connected with the pressure  
chamber (72) in a pressure-sensory manner.

- 5        19. An apparatus according to any one of Claims 1 to 18,  
         characterised in that  
         the cross-sectional area of the separator (30) is  
         round, oval or square.
- 10       20. An apparatus according to any one of Claims 1 to 19,  
         characterised in that  
         the cross-sectional area of the housing (10) is round,  
         oval or square.
- 15       21. An apparatus according to any one of Claims 1 to 20,  
         characterised in that  
         the apparatus consists of recyclable synthetic  
20       material.